

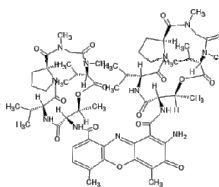
# Certificate of Analysis



## Product Identification

**Catalog number** HB1477  
**Compound name** Actinomycin D (7-AAD)  
**Chemical name** 2-Amino-(N,N)-1-bis(hexadecahydro-6,13-diiisopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaoxo-1H-pyrrolo[2,1]-[1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide  
**Batch number** E2480-1-1  
**Batch molecular formula** C<sub>62</sub>H<sub>86</sub>N<sub>12</sub>O<sub>16</sub>·1.9H<sub>2</sub>O  
**Batch molecular weight** 1289.66

## Chemical Structure



## Method

## QC requirement

## QC Result

<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 99.2%
<b>NMR</b>	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>Physical appearance</b>	Orange to red solid	Meets specification: Red solid
<b>Solubility</b>	Soluble in DMSO (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

21/12/2023

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.